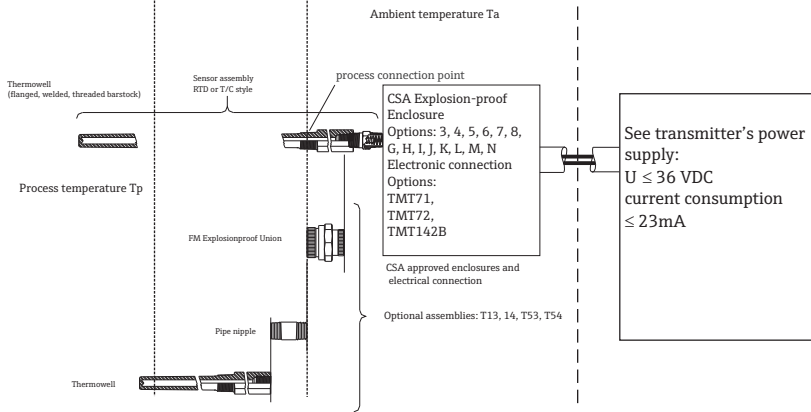


Hazardous (Classified) Location
Class I / Division 1 / Groups ABCD
Class II / Division 1 / Groups EFG
Class III



Nonhazardous Locations

See transmitter's power supply:
 $U \leq 36$ VDC
current consumption ≤ 23 mA

Installation Notes T13, T14, T15, T53, T54, T55

- CSA approved apparatus must be installed in accordance with manufacturer's instructions.
- Install per Canadian Electrical Code or National Electrical Code (NFPA 70).
- Use supply wires suitable for 5°C above surroundings.
- Keep tight while circuits are alive
- Garder bien fermé tant que les circuits sont sous tension
- Inserts TU111 (RTDs) and TU121 (TC) with Additional Option Code "2" (XP Spare Part) need to be used to ensure approved classification.

EXPLOSION PROOF

Class I / Div. 1 / Groups ABCD
Class I / Div. 1 / Groups BCD
Class I / Div. 1 / Groups ABCD
Class II / Div. 1 / Groups EFG
Class III

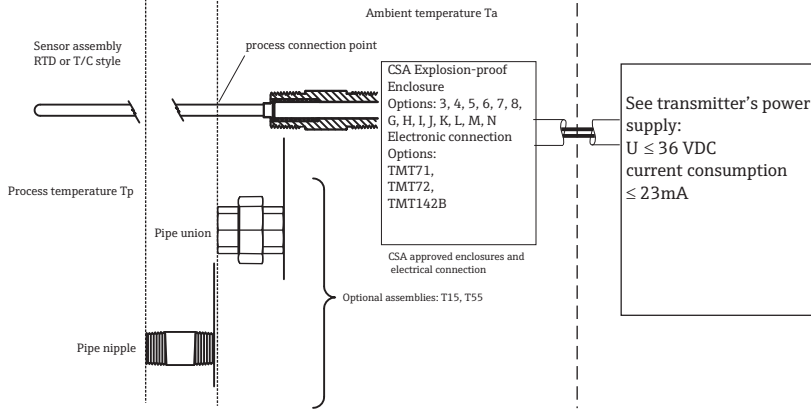
XP
DIP

DUST IGNITION PROOF

- All conduits must be assembled with a minimum of five full threads engagement.
- A seal shall be installed within 18" of the enclosure
Un scellement doit être installé à moins de 18" du boîtier.
- The flameproof joints are not intended to be repaired.
- For Class II Extension and/or Thermowell must be used to maintain CSA enclosure 4X rating.
- Class II use a dust tight seal.
- Enclosures must be CSA approved, for appropriate area classification.
- Spring loaded temperature sensors must use a thermowell assembly.

- Refer to the marked maximum ratings for assembled temperature transmitter's supply.

Hazardous (Classified) Location
Class I / Division 1 / Groups ABCD
Class II / Division 1 / Groups EFG
Class III



See transmitter's power supply:
 $U \leq 36$ VDC
current consumption ≤ 23 mA

NONINCENDIVE

Class I / Div. 2 / Groups ABCD

- Intrinsic safety barrier not required.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.
Avertissement : Risque d'explosion - Ne pas débrancher tant que le circuit est sous tension, à moins qu'il s'agisse d'un emplacement non dangereux.
- Warning: Substitution of components may impair suitability for Class I, Division 2.
Avertissement: La substitution de composants peut rendre ce matériel inacceptable pour les emplacements de Class I, Division 2.
- Nonincendive field wiring installation:
The Nonincendive Field Wiring Circuit Concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus or Associated Apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when $V_{oc} \leq V_{max}$, $C_a \geq C_i + C_{cable}$, $L_a \geq L_i + L_{cable}$.
- For transmitter's or sensor's Nonincendive Field Wiring parameters see table's parameters.
- For these current controlled circuits, the parameter I_{max} is not required and need not to be aligned with parameter I_{sc} and I_t of the Associated Nonincendive Field Wiring Apparatus or Associated Apparatus.
- Refer to the marked maximum ratings for assembled temperature transmitter's supply.

Associated non-incendive power supply unit with max. electrical specifications below the characteristic values for Entity or NIFW of the assembled transmitter:

Transmitter	Ui/Vmax	Ci	Li
TMT71, TMT72	30 V	0	0
TMT142B	30 V	5 nF	0

Approved	Pfanzelt	Date (yyyy-mm-dd)	2019-08-26	Dwg.rev.	A	Revision no.	W20507	Revision date (yyyy-mm-dd)	2020-09-21	Name	MP	Material	71529775 XA02075T/09/EN/02.21	Endress+Hauser
Volume (mm³)	Designed	Pfanzelt	Date (yyyy-mm-dd)	2019-08-23	Unit	T13, T14, T15, T53, T54, T55	Scale	1:1	Title	CONTROL DRAWING CSA		Series		
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No.	Format	A4	XP, NI, DIP	Objekt version	Sheet	1 of 2	Endress + Hauser Wetzer GmbH+Co. KG Nesselwang / Germany				

It shall be verified, taking into account the worst case process and ambient temperatures, that the temperature of the enclosure at the process connection point does not exceed the ambient temperature range of the assembly.

Permitted ambient temperatures

Class I, Division 1, Groups A, B, C and D;

Class II, Div. 1 Groups E, F & G; Class III:

Type	assembled head transmitter	Temperature class/code	ambient temperature housing
T13, T14	TMT7x	T6/T85°C	-40°C ≤ Ta ≤ +65°C
T15, T53		T5/T100°C	-40°C ≤ Ta ≤ +80°C
T54, T55		T4/T135°C	-40°C ≤ Ta ≤ +85°C
	TMT142B*	T6/T85°C	-40°C ≤ Ta ≤ +55°C
		T5/T100°C	-40°C ≤ Ta ≤ +70°C
		T4/T135°C	-40°C ≤ Ta ≤ +85°C

*The maximum ambient temperature is limited to +70 °C for the display models


Class I, Division 2, Groups A, B, C and D:

Type	Assembled transmitter	Temperature class	Ambient temperature range housing Ta
T13, T14	TMT7x	T6	-50°C ≤ Ta ≤ +55°C
T15, T53		T5	-50°C ≤ Ta ≤ +70°C
T54, T55		T4	-50°C ≤ Ta ≤ +85°C
	TMT7x with display	T6	-40°C ≤ Ta ≤ +55°C
		T5	-40°C ≤ Ta ≤ +70°C
		T4	-40°C ≤ Ta ≤ +85°C
	TMT142B*	T6	-40°C ≤ Ta ≤ +55°C
		T5	-40°C ≤ Ta ≤ +70°C
		T4	-40°C ≤ Ta ≤ +85°C

*The maximum ambient temperature is limited to +70 °C for the display models

Permitted process temperatures

Type	Insert diameter	Temperature class/ Maximum surface	Process temperature range for assembled
T13, T14	3mm,	T6 / T85°C	-50°C ≤ Tp ≤ +66°C
T15, T53	3mm(dual), 6mm dual	T5 / T100°C	-50°C ≤ Tp ≤ +81°C
T54, T55		T4 / T135°C	-50°C ≤ Tp ≤ +116°C
		T3 / T200°C	-50°C ≤ Tp ≤ +181°C
		T2 / T300°C	-50°C ≤ Tp ≤ +276°C
		T1 / T450°C	-50°C ≤ Tp ≤ +426°C
		6mm	T6 / T85°C
	T5 / T100°C		-50°C ≤ Tp ≤ +88°C
	T4 / T135°C		-50°C ≤ Tp ≤ +123°C
	T3 / T200°C		-50°C ≤ Tp ≤ +188°C
	T2 / T300°C		-50°C ≤ Tp ≤ +283°C
	T1 / T450°C		-50°C ≤ Tp ≤ +433°C

	Approved Pfanzelt	Date (yyyy-mm-dd) 2019-08-26	10000011304	Dwg.rev. A	Revision no. W20507	Revision date (yyyy-mm-dd) 2020-09-21	Name MP	Material 71529775 XA02075T/09/EN/02.21	Endress+Hauser 
Volume (mm³)	Designed Pfanzelt	Date (yyyy-mm-dd) 2019-08-23	Unit T13, T14, T15, T53, T54, T55	Scale 1:1	Title CONTROL DRAWING CSA XP, NI, DIP		Series		
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No.	Format A4	Objekt version	Sheet 2 of 2	Endress + Hauser Wetzer GmbH+Co. KG Nesselwang / Germany		